

**THE CLAIMS ARE:**

1. A knife, having two opposite sides such knife comprising:

an elongated bar of heat conducting material having two opposed and generally parallel surfaces, one surface for contacting the pattern gate and another for contacting the wax runner, the surface for contacting the wax runner having two side edges and a center section between the two side edges, at least a portion of a center section being slightly closer to the surface for contacting the wax runner than the side edges to provide a space for molten wax to be retained; and means for heating the elongated bar.

2. A knife according to claim 1, wherein the center area is concave.


3. A knife according to claim 1 wherein the center includes a plurality of grooves.

4. A knife for producing molten wax on a pattern gate of at least one wax pattern and a portion of the surface of a wax runner, said knife comprising:

an elongated bar of heat-conducting material having two opposed and generally parallel surfaces, one surface for contacting the pattern gate, and the other surface for contacting the wax runner, the surface for contacting the wax runner having at least one raised area with a predetermined configuration; and, means for heating the elongated bar.

5. A knife according to claim 4 wherein the raised area has at least a portion that is grooved.

6. A knife for producing molten wax on a pattern gate of at least one wax pattern and a portion of the surface of a wax runner, said knife comprising:



an elongated bar of heat-conducting material having two opposed and generally parallel surfaces, one surface for contacting the patten gate, and the other surface for contacting the wax runner;

5 means for heating the elongated bar including an electrical circuit with a heater, a temperature controller, a relay and contact, the temperature controller activating the relay to open the contact.